

**Claims:**

1. An adapter connectable with an automatic syringe pump and a syringe, the syringe containing contents to be dispensed, said adapter comprising means for agitating the content of the syringe.
2. An adapter as claimed in claim 1, wherein said adapter comprises an adapter body receivable by a syringe-receiving-unit of the syringe pump.
3. An adapter as claimed in claim 1 or 2 comprising:
  - i) an adapter body receivable by the syringe pump;
  - ii) a syringe retainer for retaining the syringe; and
  - iii) a syringe driver for agitating the contents of the syringe.
4. An adapter as claimed in claim 3 wherein said adapter body further comprises an elongate cylindrically shaped portion receivable in the syringe pump.
5. An adapter according to claim 3, wherein said syringe retainer further comprises an annular syringe ring defining an insertion aperture, said syringe ring further comprising syringe retaining means extending about said insertion aperture for engaging and retaining a syringe.
6. An adapter according to claim 5, wherein said syringe retaining means engages at least one flange transversely projecting from the syringe.
7. An adapter according to claim 5 or 6, wherein said syringe driver further comprises a motor and drive means for urging said syringe ring to rotate about said insertion aperture.
8. An adapter according to claim 7, wherein said drive means further comprises a drive belt engaging a moving portion of said motor and said syringe ring.
9. An adapter according to any of claims 5 to 8, wherein said syringe driver causes said syringe ring to reciprocally rotate about said insertion aperture.
10. An adapter as claimed in any of claims 1 to 9 further comprising a portion being sized and shaped so as to be recognizable by a size-reading unit of the syringe pump.

11. An adapter according to any of claims 3 to 10, further comprising a syringe holding arm, wherein said syringe retainer is positioned towards a free end of said syringe holding arm.
12. An adapter according to any of claims 3 to 11, further comprising an elongate guide piston, wherein said adapter body defines a guide piston opening and an elongate guide piston passageway in communication with said guide piston opening for slideably receiving said guide piston moving between a first and a second position.
13. An adapter according to claim 12, further comprising an extension arm supported by said guide piston, said extension arm including a free end in movable spaced registry with said syringe retainer.
14. An adapter according to claim 13, further comprising a drive rod supported by said extension arm, said drive rod engaging a dispensing member of the syringe so as to cause the contents to be dispensed as said drive rod is moved relative to said syringe retainer.
15. An adapter according to claim 14, wherein said drive rod is rotateably mounted to said extension arm so as to enable said drive rod to rotate with the syringe.
16. An adapter according to any of claims 3 to 15, wherein said syringe retainer is offset from said adapter body.
17. An adapter of any of claims 1 to 16 adapted to connect to a syringe such that the adapter body and the syringe are positioned substantially in parallel.
18. An adapter of any of claims 1-16 wherein the syringe mounts to one end of said adapter body such that the adapter body and syringe are positioned substantially in line.
19. Apparatus for administration of an injectable liquid comprising an automatic syringe pump, a syringe and an adapter as claimed in any of claims 1-18.
20. Method of administration of an injectable liquid using an apparatus as claimed in claim 19.
21. Method as claimed in claim 20, wherein said administration is by infusion.